

CLAIMS

1. A load-balancing device for movable-axis hinges, comprising: a sliding piece/sleeve provided with means for retaining a first end of a first coaxial spring, another end of which has a fastening element, there being slidable coaxially with said sleeve and with said first spring a spindle, one end of which, inside said spring, has first means for retaining one end of a second spring which is coaxial with the first spring and the other end of which is housed inside a corresponding seat of the said sleeve, said first spring having a load greater than said second spring.

2. The device according to Claim 1, wherein said means for retaining the end of said first spring comprises a seat in a head of the sleeve.

3. The device according to Claim 1, wherein said sliding piece/sleeve is a bolt which is coaxially hollow.

4. The device according to Claim 3, wherein said means for retaining the first end of said first spring comprises a thread of the bolt.

5. The device according to Claim 4, wherein said thread of the bolt has a pitch corresponding to a pitch of the outer spring.

6. The device according to Claim 1, wherein said means for fastening the second end of the first spring comprises a hook.

7. The device according to Claim 1, wherein said spindle has one end, inside the first spring, having a head provided with a seat for housing one end of the second spring.

8. The device according to Claim 7, wherein another end of the second spring is housed inside a corresponding seat in the surface of the sleeve, opposite to the said head thereof.

9. The device according to Claim 1, wherein an outer free end of said spindle has a hole suitable for coupling with corresponding fixed fastening means.

10. The device according to Claim 1, wherein said spindle has transverse projections able to form an end-of-travel stop of the sliding piece/sleeve towards an outer free end of said spindle.

11. The device according to Claim 1, wherein said spindle has a section adjacent to the head with a widened section.

12. The device according to Claim 1, wherein said first spring is an extension spring.

13. The device according to Claim 1, wherein said second spring is a compression spring.

14. A hinge with a movable axis for doors of electric household appliances and the like comprising: a balancing device that includes a sleeve provided with means for retaining a first end of a first coaxial spring, another end of which has a fastening element, there being slidable coaxially with said sleeve and with said first spring a spindle, one end of which, inside said spring, has first means for retaining one end of a second spring which is coaxial with the first spring and the other end of which is housed inside a corresponding seat of the said sleeve, said first spring having a load greater than said second spring.

15. The hinge according to Claim 14, wherein said means for retaining the end of said first spring comprises a seat formed in a head of the sleeve.

16. The hinge according to Claim 14, wherein said sleeve or sliding piece is a bolt which is coaxially hollow.

17. The hinge according to Claim 16, wherein means for retaining the first end of said first spring comprises a thread of the bolt.

18. The hinge according to Claim 17, wherein said thread of the bolt has a pitch corresponding to the pitch of the turns of the outer spring.

19. The hinge according to Claim 14, said means for fastening the second end of the first spring comprises a hook.

20. The hinge according to Claim 14, wherein said spindle has an end, inside the first spring, having a head provided with a seat for housing an end of the second spring.

21. The hinge according to Claim 14, wherein said spindle has transverse projections able to form an end-of-travel stop for the sliding piece/sleeve towards an outer free end of the said spindle.

22. The hinge according to Claim 14, wherein the other end of the second spring is housed inside a corresponding seat in the surface of the sleeve, opposite to the said head thereof.

23. The hinge according to Claim 14, wherein the outer free end of said spindle has a hole suitable for coupling with corresponding fixed fastening means.

24. The hinge according to Claim 20, wherein said spindle has a section adjacent to the head with a widened cross-section.

25. The hinge according to Claim 20, wherein said first spring is an extension spring.

26. The hinge according to Claim 20, wherein said second spring is a compression spring.